

PATENT ABSTRACTS OF JAPAN

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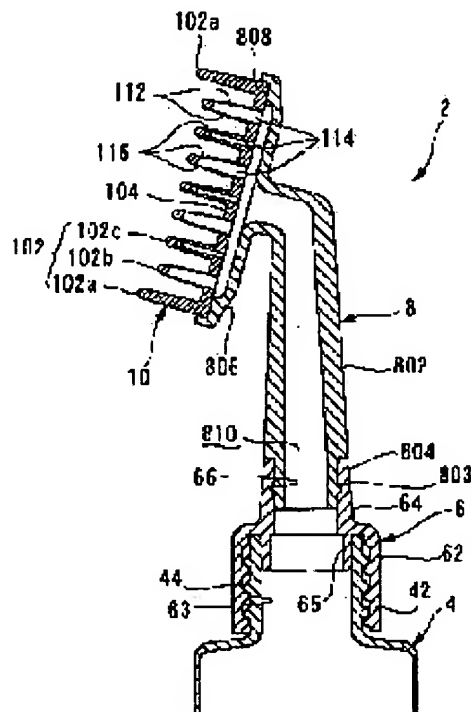
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(54) POURING VESSEL WITH BRUSH FOR APPLICATION

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a pouring vessel with a brush for application capable of keeping liquid formulation (hair dyeing agent, hairdressing agent, hair restoration agent, etc.), widely, evenly, and by balancing on a brush body to apply the liquid formulation evenly over a wide range of hair and facilitating the application work when the liquid formulation is applied to the hair by the brush body.

SOLUTION: This pouring vessel with the brush for application is provided with a handle part 8 attached to a vessel main body 4 to form a guide passage 810 for liquid formulation and the brush body 10 having many brush teeth 102 bristled lengthwise and crosswise and attached to the handle part 8. A pouring passage 114 for liquid formulation communicating with the guide passage 810 of the handle part 8 and extending in the direction of tooth height and a pouring port 116 communicating with a tip of the pouring passage 114 to pass through the brush teeth 102 in the radial direction are formed in the brush teeth 102, and the direction of opening of the pouring port 116 differs between adjacent brush teeth 102b and 102c.



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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention]This invention relates to improvement of the pour container with the brush for spreading of the liquids and solutions pour out from the bung hole which carried out the opening of the liquids and solutions (a hairdye, a charge for a haircut, a hair restorer, etc.) accommodated in the package body to much brush tooth surfaces, and it enabled it to apply to hair.

[0002]

[Description of the Prior Art]It leads to the brush interdentium of a brush body which attached to the container concerned conventionally the hairdye accommodated in the container, and the pour container with the brush for spreading of the hairdye which enabled it to apply hair to the surface by ***** by this brush body is known.

[0003]This kind of pour container consists of a package body and a brush body attached to this package body via a pedicel, the guide passage for leading the hairdye in a package body to that inside at a brush body is provided, a pedicel is formed in the shape of [in the air] a shell, and an end is attached to the regio oralis of a package body. It unites with the mounting base by which extension formation was carried out, the brush body is provided in the tip side of the pedicel other end, and the brush gear tooth of much shaft shape stands close together in all directions. And the bung hole formed by penetrating this for a brush gear tooth in a diameter direction and the pour passage which opens this bung hole and the guide passage of the above-mentioned pedicel for free passage are formed, and the hairdye in a package body flows out of the bung hole of a brush gear tooth into the method of both sides through a guide passage and a pour passage.

[0004]

[Problem(s) to be Solved by the Invention]However, in the above pour containers with the brush for spreading of the conventional hairdye. Since all the bung holes formed in a brush gear tooth were arranged and formed in the uniform direction, the hairdye could be made to be able to average on a brush, and it could not be made to stagnate, but the technical problem that it was difficult to apply to hair uniformly occurred.

[0005]This invention is originated in light of the above-mentioned problems, and the purpose, In applying liquids and solutions (a hairdye, a charge for a haircut, a hair restorer, etc.) to hair by a brush body, the whole surface on a brush, liquids and solutions can be made to be able to lead and stagnate in an average, and it can have them in it, can apply uniformly [the range with wide hair], and is in providing the pour container with the brush for spreading which can perform spreading activities comfortably.

[0006]

[Means for Solving the Problem]In order to attain this purpose, a pour container with the brush for spreading of liquids and solutions concerning this invention, In what pours out liquids and solutions accommodated in a package body from a bung hole which carried out the opening to brush tooth

surfaces, It has a pedicel which is attached to a package body and forms a guide passage of liquids and solutions, and a brush body which has a brush gear tooth of a large number which stood close together in all directions, and is attached to this pedicel, A pour passage of liquids and solutions which are open for free passage for this brush gear tooth in a guide passage of this pedicel, and are prolonged in the direction of a tooth depth, and a bung hole which is open for free passage at a tip of this pour passage, and penetrates a brush gear tooth to a diameter direction are formed, and the opening directions differ among the brush gear teeth which this bung hole adjoins.

[0007]

[Embodiment of the Invention] Hereafter, with reference to an accompanying drawing, it explains in detail about the desirable embodiment of this invention. Drawing 1 is a whole perspective view showing one embodiment of the pour container with the brush for spreading concerning this invention, The important section expansion perspective view which the figure and drawing 3 as which drawing 2 regarded the brush gear-tooth portion from the transverse plane expand the III-III line arrowed cross-section figure in drawing 2, and drawing 4 expands the important section of a brush body, and is shown, and drawing 5 are the things explaining the relation of two brush gear teeth with which a brush body adjoins, A front view and the figure (b) of the figure (a) are a b-b line arrowed cross-section figure in (a), and a figure in which drawing 6 shows drawing 5 (b) in a strabism section.

[0008] So that it may illustrate to these the pour container 2 with the brush for spreading of this embodiment, It consists of the package body 4 in which a hairdye is accommodated as liquids and solutions, the adapter 6 which is screwed in the regio oralis 42 of this package body 4 removable, and is attached to it, the pedicel 8 by which fitting wearing is carried out at this adapter 6, and the brush body 10 attached to this pedicel 8. What is applied to hair, such as not only the above-mentioned hairdye but a charge for a haircut and a hair restorer, as liquids and solutions is applicable.

[0009] In order that the package body 4 may extrude the hairdye of contents, as the whole, are formed in the shape of thin ***** with the elasticity synthetic resin, but. While the regio oralis 42 whose diameter was reduced is made heavy-gage and rigidity is improved, the external threaded section 44 is formed in the peripheral face, and the above-mentioned adapter 6 is screwed.

[0010] The adapter 6 makes the shape of a barrel with the step which consists of the major diameter 62 and the narrow diameter portion 64, and the female screw part 63 formed in the medial surface of the major diameter 62 is screwed in the external threaded section 44 of the regio oralis 42 of the package body 4. Formed protruding of the cylinder section 65 for fitting into regio-oralis 42 inner skin of the package body 4 inside this major diameter 62, and securing sealing performance is carried out from the narrow diameter portion 64 side. The engagement groove 66 where fit fixing of the tubed base end 804 of the pedicel 8 is carried out to the inside, and it is annularly formed in the inner skin of the narrow diameter portion 64 at it, and the annular projection 803 formed in base end 804 peripheral face of the pedicel 8 engage and occur in the narrow diameter portion 64, and they maintain sealing performance and combine it firmly.

[0011] The handle body part 802 which stands in a row in the above-mentioned base end 804 is formed in the shape of [of the hollow where the tip part side was extracted gradually] a shell, and the building envelope serves as the guide passage 810 of the hairdye. The boundary of the handle body part 802 and the base end 804 is formed in the step, and this step contacts the end face of the narrow diameter portion 64 of the adapter 6. By the way, the tip side of the handle body part 802 is bent at an angle of predetermined in the side, And extension formation of that tip is carried out greatly the shape of a rectangular frame object, and it has become the mounting base 806 of the brush body 10 which the rectangular frame object-like portion of the extension portion concerned mentions later, and this mounting base 806 is set by the longitudinal direction of the pedicel main part 802 in that diagonal line, and is arranged aslant. The step 808 annularly dented along with the inner periphery of that end face is formed in the rectangular frame object-like mounting base 806,

and this step 808 is equipped with the brush body 10 in one.

[0012]The brush body 10 consists of the brush gear-tooth connecting plate 104 with which the step 808 of 806 copies of above-mentioned mounting bases is equipped and which is unified with adhesives etc., and the brush gear tooth 102 of the shape of a cylindrical shaft of a large number by which stood up from the surface of this brush gear-tooth connecting plate 104, and formed protruding was carried out in one. The brush gear-tooth connecting plate 104 makes the rectangle doubled with the inside dimension of the step 808 of the above-mentioned mounting base 806, Fitting contact was carried out, the edge part was attached to that annular step 808 in one, and the guide passage 810 by which expansion formation is carried out at the rectangle is faced the rear face except this edge part inside the mounting base 806.

[0013]The above-mentioned brush gear tooth 102 has a thick path of the root-of-tooth part, the tapered shape whose diameter is reduced a little towards the tip side is made, and the tip part at the tip is formed in the globular form. A majority of these brush gear teeth 102 stand close together in all directions by the aligned state along the diagonal direction of the rectangular connecting plate 104. And for all the brush gear teeth 102b and 102c of the others except the 16 brush gear teeth 102a located in the outermost part of these brush row of teeth. The pour passage 114 of a hairdye is extended and formed in the direction of a tooth depth to near the tooth point at the axial center, and these each pour passage 114 is open for free passage to the guide passage of the handle body part 802.

[0014]Penetration formation of the bung hole 116 which is open for free passage at the tip of the pour passage 114 for each brush gear teeth 102b and 102c is carried out in the diameter direction, and this bung hole 116 differs in that opening direction between the adjoining brush gear tooth 102b and 102c. That is, the brush gear tooth 102b by which the opening was carried out by the bung hole 116 pointing to the longitudinal direction of the pedicel 8, and the brush gear tooth 102c by which the opening was carried out by pointing to the direction which goes to the longitudinal direction of the pedicel 8 direct are located in a line in all directions by turns, respectively. Here, in the pour passage 114, the cross section makes a rectangle and the opening direction of the bung hole 116 serves as a long side. And the bulged part 112 for securing the thickness of the brush gear teeth 102b and 102b to the short side part which becomes the both-ends side of this long side, and forming the pour passage 114 is formed in one. The pour passage 114 of the cross section rectangle is gradually formed short as the length by the side of a long side goes to the tooth point side, while the length by the side of the shorter side is formed uniformly, and the shorter side side forms an inclined plane.

[0015]In the pour container 2 with the brush for spreading of the hairdye of this embodiment constituted like ****. If the peripheral part of the package body part 4 is pushed in lightly, the hairdye of contents will be extruded by the guide passage 810 of the pedicel 4, and it will be full here, and also will flow in in the pour passage 114 of each brush gear teeth 102b and 102c of the brush body 10, It flows out and stagnates between the brush gear tooth 102b and 102c through the bung hole 116 which was open for free passage to the tip part of each of that pour passage 114. Since the bung hole 116,116 of the brush gear teeth 102b and 102c which adjoin at this time differs in that direction 90 degrees mutually, a hairdye will be widely averaged in the crevice between each brush gear teeth 102b and 102c, and it will diffuse it uniform in it. For this reason, hair can be uniformly applied now at once [the range whose hair is wide in applying a ***** hairdye] by the brush body 10, and the spreading activities of a hairdye can be comfortably performed now.

[0016]Two brush gear teeth which adjoin the modification of a bung hole represent and show drawing 7 and drawing 8, and, as for drawing 7, a top view and the figure (b) of a perspective view and drawing 8 (a) are b-b line arrowed cross-section figures in (a). If it is in this modification so that it may illustrate to these, the bung hole 116 is not established in the bulged part for [that] continuing and forming in an overall length mostly and forming the pour passage 114 with the space of the brush interdentium for the brush gear teeth 102b and 102c along the pour passage 114 from

the upper surface of the brush gear-tooth connecting plate 104. Thus, if it forms in the direction of a tooth depth for a long time, on the brush body 10, a hairdye is diffused widely, and it not only being made to stagnate on the average but its stagnation thickness can be secured greatly, it has it, and the spreading activities of a hairdye can be comfortably performed more to one layer.

[0017]

[Effect of the Invention]As explained above, according to the pour container with the brush for spreading concerning this invention. Since it is made open for free passage at the tip of the pour passage of the liquids and solutions formed in the brush gear tooth and the opening direction of the bung hole which penetrates and forms the brush gear tooth concerned in the diameter direction is changed among adjoining brush gear teeth, In averaging in the crevice between each brush interdentium, being spread widely, having, and applying liquids and solutions to hair by a brush body, the liquids and solutions which pour out and stagnate on a brush body can be applied uniformly [the wide range] at once, and can perform the spreading activities of liquids and solutions comfortably.

[Translation done.]